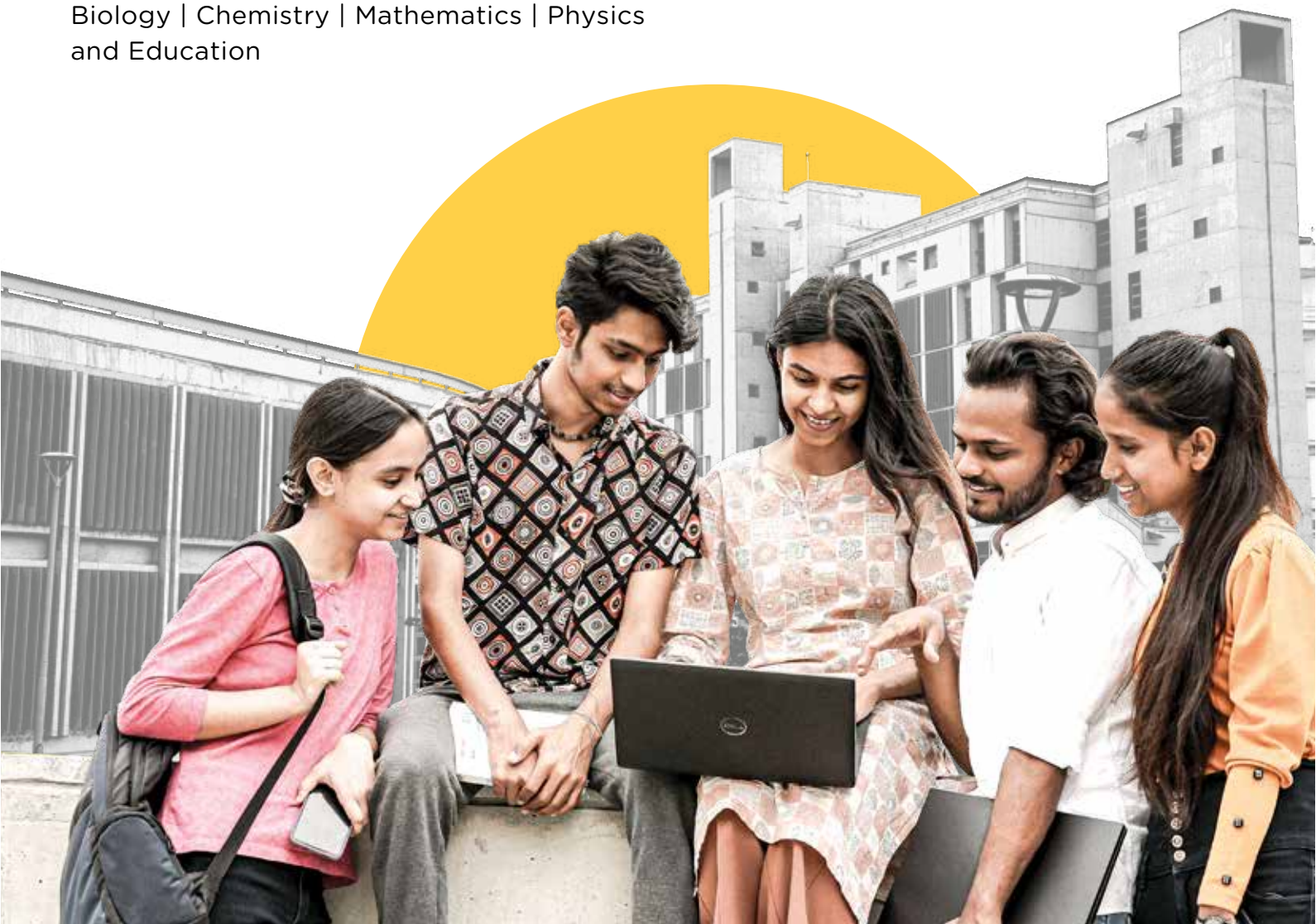


Dual Undergraduate Degree in Science and Education

4-Year B.Sc. B.Ed.

Biology | Chemistry | Mathematics | Physics
and Education



About the programme

Azim Premji University invites applications to its 4-year B.Sc. B.Ed. dual-degree programmes (Biology, Chemistry, Mathematics or Physics and Education)

This is a full-time, residential programme based in Bengaluru.

Our degree of B.Sc. and B.Ed. together in 4 years prepares young people to become

- Effective science or mathematics teachers
- Scholars with deep disciplinary knowledge in the sciences and education
- Socially and ethically committed human beings

The programme encourages:

- Active and collaborative learning
- Participation in rich forums and discussions
- Rigorous field work and research project
- Exposure to our vibrant culture of campus life

Eligibility

Class 12 / Pre University certificate from any recognized Indian Board or any valid international certificate equivalent to the Class 12.

Applicants appearing for their final examinations are eligible to apply. Applicants who have completed their Class 12 / Pre-University board examinations in a previous year are also eligible to apply.

Applicant should not be older than 21 years of age when joining the programme and should have successfully completed 12th standard examination (or its equivalent) with a minimum of 50% marks.

Our Vision:

A just, equitable, humane and sustainable society



Choose any future you like

This undergraduate professional degree programme will open up multiple career pathways for you after graduation:

Build a career in academics by continuing with higher degrees in Biology | Chemistry | Mathematics | Physics and Education

Work in the education sector in different capacities as a curriculum developer, researcher, etc.

Teach Science or Mathematics in Schools

Budding Scientist or Mathematician or an Outstanding Educator

Highlights of the programme:

- Rich integrated learning experience where the pre service teacher education programme (B. Ed.) is integrated with the rest of the undergraduate programmes.
- Preparation for diverse futures as a school teacher, postgraduate student or other career paths in sciences and education.
- Opportunity to practice what you learn in the classroom through structured internships
- Connection with our vast network of schools and readiness to teach in diverse school contexts across the country
- Continued support for students who choose to become teachers even after their graduation



B.Sc. B.Ed. Programme Structure

Sciences

You can choose one of the given majors for your B.Sc. degree:

Biology or Chemistry or Mathematics or Physics

Education

Perspectives - Draw upon the disciplines of philosophy, sociology, psychology, history and linguistics to build rich perspectives on educational ideas, debates, challenges and processes

Curriculum, Pedagogy and Assessment - Critically engage with curriculum and its design, create meaningful teaching-learning materials, explore effective teaching strategies and develop assessments that are relevant

Professional Practice - Engage in school internships to develop the art and craft of teaching in a variety of school contexts across the country

Common Curriculum

Foundations:

Build capacity for critical thinking, reasoning and communication

Understanding India:

Study India's history, society and future

Creative Expressions:

Explore art, music, craft, theatre, yoga, and other creative areas



Common Curriculum

- Foundations** ▶ Critical Reading and Writing | Public Reasoning
- Understanding India** ▶ The many pasts of India's present | India's present and its possible futures
- Creative Expressions** ▶ Silambattam | Yoga | Exploring rhythm | Art | Theatre etc.
-

Biology

Core

Introduction to Biology I & II | Quantitative Methods in Biology | Molecular Biology and Biochemistry | Introduction to Genetics | Understanding Plants

Elective / Supportive

Biology Electives | General Chemistry | Calculus for Biologists | Lab and Field Techniques for Biology

Chemistry

Core

Chemicals in the community, Introduction to Chemical thinking, Mathematics and Computing, Structure and property relationships in Chemistry, Thermodynamics and Kinetics, Chemical analysis and Spectroscopy, Principles of Reality

Elective / Supportive

Inorganic synthesis | Organic synthesis | Methods in Chemical Biology | Introduction to Physics

Mathematics

Core

Introduction to Mathematical Thinking | Calculus | Linear Algebra | Probability | Programming

Elective / Supportive

Mathematics Electives | Abstract Algebra | General Physics

Physics

Core

Mechanics | Waves | Electricity and Magnetism | Optics | Modern Physics | Thermal Physics

Elective / Supportive

Physics Electives | General Biology | Mathematics for Physics | Atoms and Molecules

Education

Perspectives

- Curriculum and Pedagogy** ▶ Introduction to Curriculum, Pedagogy and Assessment | Teaching Upper Primary Science | Creativity and Pedagogic Practices
- Professional Practice** ▶ Local School Engagement | Government Schooling in India | Semester-long Induction into Teaching

Think broadly, deeply and differently

Committed Faculty

► Our faculty is experienced in meeting high standards of teaching and research. They are committed to go beyond contributing to students' academic success, enabling them to develop as successful and responsible citizens of the world. Please visit the University website for faculty profiles.

Vibrant Student Life

► Our diverse student population and the residential nature of our programme creates a vibrant community life on campus. Clubs, committees, sports and other initiatives ensure that learning is not limited to just the classroom.

Financial Aid

► Azim Premji University has an explicit commitment towards supporting students from disadvantaged backgrounds. We provide financial assistance for deserving students to pursue their education with us. We offer need based scholarships (both full and partial) and facilitate education loans for students.

Comprehensive Student Support

► We are committed to investing time and resources to ensure overall student well-being.

We do this in many ways:

- High faculty-student ratio
 - Opportunities for research
 - Tutoring and mentoring
 - Career guidance
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Admissions

► Applicants will go through an entrance test to assess their English language levels and quantitative capacities and a written component to assess writing and analytical skills. Shortlisted applicants will be called for personal interview. The Application form is available on the University website. Benefit through our Early Admissions window conducted in December every year.

Contact us

Azim Premji University

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